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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TECH CENTER 1600/2900

Applicant : Vincent P. Stanton, Jr.

Art Unit : 1656

Serial No. : 09/697,028

Examiner : S. Chunduru

Filed : October 25, 2000

Title : METHODS FOR GENETIC ANALYSIS OF DNA TO DETECT SEQUENCE  
VARIANCESCommissioner for Patents  
Washington, D.C. 20231RESPONSE

In response to the Office Action mailed July 17, 2001, please amend the application as follows:

In the Specification:

Replace the paragraph beginning at page 27, line 19, with the following rewritten paragraph:

*A* ~~--Figure 1. Depiction of a primer designed to incorporate restriction enzyme recognition sites for the specific restriction enzymes Fok I and Fsp I. The primer (primer R sequence) has altered bases from the desired amplified region of the target DNA. The polymorphic nucleotide is included in the target DNA region and is underlined. After PCR amplification, the incorporated altered base pairs of the primer thereby incorporate FokI and FspI restriction sites in the amplicon. The amplicon can subsequently be digested in the presence of the FokI and FspI restriction enzymes under optimal conditions for digestion by both enzymes. The resultant fragments after enzyme digestion, an 8-mer and a 12-mer, are as depicted. In this figure, the polymorphism (A, underlined) is contained within the 12-mer fragment.--~~

## CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit

*November 15, 2001*

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*Carrie A. Amonte**Carrie A. Amonte*

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